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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/598,416	10/06/2006	Stefan Willmann	100717-691 KGB	4318	
	27384 7590 02/17/2010 Briscoe, Kurt G.			EXAMINER	
Norris McLaughlin & Marcus, PA 875 Third Avenue, 8th Floor			NEGIN, RUSSELL SCOTT		
New York, NY	· ·		ART UNIT	PAPER NUMBER	
			1631		
			MAIL DATE	DELIVERY MODE	
			02/17/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/598,416	WILLMANN ET AL.				
Office Action Summary	Examiner	Art Unit				
	RUSSELL S. NEGIN	1631				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
·=	/ 					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)☐ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.	· · · · · · · · · · · · · · · · · · ·					
8) Claim(s) 1-10 are subject to restriction and/or	election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<u> </u>	priority under 35 LLS C. 8 119(a)	-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	2) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ ΔII b) □ Some * c) □ None of:					
·—						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	,					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	atent Application					
Paper No(s)/Mail Date 6) L. Other:						

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DETAILED ACTION

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Election/Restrictions

Applicant is required to make six species elections with a single species election from each of the six categories listed below.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Category A: parameter type (claims 1 and 8-9)

Species A-1: anatomical

Species A-2: physiological

Species A-3: genetic

<u>Justification</u>: Each type of parameter is based on physically distinct biological parameters.

<u>Category B</u>: application type (claim 3)

Species B-1: intravenous

Species B-2: intra-arterial

Species B-3: intraperitoneal

Species B-4: intramuscular

Species B-5: subcutaneous

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Species B-6: topical

Species B-7: oral

Species B-8: inhalative

<u>Justification</u>: Each species of these delivery methods involves a distinct

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application type.

<u>Category C</u>: physiological parameters (claim 4)

Species C-1: blood flow rates

Species C-2: volumes and compositions of individual organs

Species C-3: gene expression data of metabolically active enzymes or active

transporters.

<u>Justification</u>: Each parameter is based on physically distinct physiological

properties.

Category D: substance species parameters (claim 5)

Species D-1: lipophilicity

Species D-2: binding constants to plasma proteins

Species D-3: free fraction in plasma

Species D-4: solubility

Species D-5: permeability coefficient

Species D-6: molar volume

Species D-7: organ/plasma or organ/blood distribution coefficient

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<u>Justification</u>: Each substance specific parameter is based on a physiologically distinct property.

<u>Category E</u>: numerical optimization methods

Species E-1: gradient methods

Species E-2: gradient-free methods

Species E-3: stochastic methods

<u>Justification</u>: Each numerical optimization method is based on mathematically distinct properties.

Category F: dosage device

Species F-1: electronically controlled infusion pump

Species F-2: inhaler

Species F-3: electronically controlled release capsule for oral application

<u>Justification</u>: Each dosage device operates under distinct physical principles.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the central PTO Fax Center. The faxing of such pages must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The Central PTO Fax Center Number is (571) 273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Negin, whose telephone number is (571) 272-1083. The examiner can normally be reached on Monday-Friday from 8:30 am to 5:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Marjorie Moran, Supervisory Patent Examiner, can be reached at (571) 272-0720.

Information regarding the status of the application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information on the PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Russell S. Negin/ Examiner, AU 1631 5 February 2010